

ABSTRACT

The present invention provides a catalyst comprising particles of one or more catalytic metals supported on a porous carrier made of one or more metal oxides, wherein the porous carrier is made of an oxide containing a rare earth oxide, and that the catalytic metal particles are made of one or more transition metals or transition metal oxides having 10 to 50000 atoms.

In the present invention, cluster-like catalyst particles are supported on a specific carrier. The catalyst of the present invention maintains desirable activity while changing the morphology of catalyst particles by the atmosphere of the catalyst.